

Rec'd PCT/PTO 1.9 11 200

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date 31 July 2003 (31.07.2003)

PCT

(10) International Publication Number WO 03/061709 A1

- (51) International Patent Classification7:
- ___

A61K 47/48

- (21) International Application Number: PCT/GB02/00199
- (22) International Filing Date: 18 January 2002 (18.01.2002)
- (25) Filing Language:

English

(26) Publication Language:

English

- (71) Applicant (for all designated States except US): AD-VANCED PHYTONICS LIMITED [GB/GB]; Olway Works, Healey Road, Ossett WF5 8LT (GB).
- (72) Inventors; and
- (75) Inventors/Applicants (for US only): BELLAMY, Simon, Andrew [GB/GB]; c/o Rohm & Haas, Lennig House, 2 Masons Avenue, Croydon, Surrey CR9 3NB (GB). HUGHES, Lyn [GB/GB]; c/o Rohm & Haas, Lennig House, 2 Masons Avenue, Croydon, Surrey CR9 3NB (GB). NICOLA, Mazin [GB/GB]; 6 St Michael's Road, Worthing, West Sussex BN11 4SD (GB).
- (74) Agents: NEILL, Alastair, William et al.; Appleyard Lees, 15 Clare Road, Halifax HX1 2HY (GB).

- (81) Designated States (national): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, ZW.
- (84) Designated States (regional): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

- with international search report

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

3/061709 A

(54) Title: A METHOD FOR PREPARING RESINATES

A. CLASSIFICATION OF SUBJECT MATTER IPC 7 A61K47/48

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols) $IPC - 7 \qquad A61K$

Documentation searched other than minimum documentation to the extent that such documents are included. In the fields searched

Electronic data base consulted during the International search (name of data base and, where practical, search terms used)

EMBASE, BIOSIS, EPO-Internal, CHEM ABS Data

Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	IRWIN W J ET AL: "DRUG-DELIVERY BY ION-EXCHANCE. PART VII: RELEASE OF ACIDIC DRUGS FROM ANIONIC EXCHANGE RESINATE COMPLEXES" DRUG DEVELOPMENT AND INDUSTRIAL PHARMACY, NEW YORK, NY, US, vol. 16, no. 6, 1990, pages 883-898, XP001029685 ISSN: 0363-9045 abstract	1-21
Ε	EP 1 190 721 A (ROHM & HAAS) 27 March 2002 (2002-03-27) column 4, line 48 -column 5, line 3; claims 1,3,10	1-21

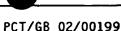
X Further documents are listed in the continuation of box C.	Patent family members are listed in annex.
*Special categories of cited documents: *A* document defining the general state of the art which is not considered to be of particular relevance *E* earlier document but published on or after the International filling date *L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) *O* document referring to an oral disclosure, use, exhibition or other means *P* document published prior to the international filling date but later than the priority date claimed	 *T* later document published after the International filling date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention *X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone *Y* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art. *&* document member of the same patent family
Date of the actual completion of the international search 2 October 2002	Date of mailing of the international search report 09/10/2002
Name and mailing address of the ISA	Authorized officer
European Patent Office, P.B. 5818 Patentlaan 2 NL – 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016	Berte, M



PCT/GB 02/00199

C.(Continua	tion) DOCUMENTS CONSIDERED TO BE RELEVANT	
Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Ε	EP 1 175 914 A (ROHM & HAAS) 30 January 2002 (2002-01-30) claims; examples 1-3,7	1-21
E	EP 1 175 915 A (ROHM & HAAS) 30 January 2002 (2002-01-30) claims 1,10; examples 1,2,7	1-21





Observations where certain claims were found unsearchable (Continuation of item 1 of first sheet) This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons: Claims Nos.: because they relate to subject matter not required to be searched by this Authority, namely: Claims Nos.: because they relate to parts of the international Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically: see FURTHER INFORMATION sheet PCT/ISA/210 Claims Nos.: because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a). Box II Observations where unity of invention is lacking (Continuation of Item 2 of first sheet) This International Searching Authority found multiple inventions in this international application, as follows: As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims. As all searchable daims could be searched without effort justifying an additional fee, this Authority did not invite payment 2. of any additional fee. As only some of the required additional search fees were timely paid by the applicant, this International Search Report 3. covers only those claims for which fees were paid, specifically claims Nos.: No required additional search fees were timely paid by the applicant. Consequently, this international Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.: The additional search fees were accompanied by the applicant's protest. Remark on Protest No protest accompanied the payment of additional search fees.

INTERNATIONAL SEARCH REPORT

International Application No. PCT&B 02 D0199

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

Continuation of Box I.2

Present claims 1-21 relate to an extremely large number of possible compounds or methods. In fact, the claims contain so many options, that a lack of clarity (and/or conciseness) within the meaning of Article 6 PCT arises to such an extent as to render a meaningful search of the claims impossible. Consequently, the search has been carried out for those parts of the application which do appear to be clear (and/or concise), namely compounds or methods have been searched recited in the examples.

The applicant's attention is drawn to the fact that claims, or parts of claims, relating to inventions in respect of which no international search report has been established need not be the subject of an international preliminary examination (Rule 66.1(e) PCT). The applicant is advised that the EPO policy when acting as an International Preliminary Examining Authority is normally not to carry out a preliminary examination on matter which has not been searched. This is the case irrespective of whether or not the claims are amended following receipt of the search report or during any Chapter II procedure.



Information on patent family members

PCT/GB 02/00199

Patent document cited in search report		Publication date		Patent family member(s)	Publication date
EP 1190721	A	27-03-2002	EP JP US	1190721 A2 2002114682 A 2002015687 A1	27-03-2002 16-04-2002 07-02-2002
EP 1175914	Α	30-01-2002	EP JP US	1175914 A2 2002060350 A 2002032245 A1	30-01-2002 26-02-2002 14-03-2002
EP 1175915	Α	30-01-2002	EP JP US	1175915 A1 2002053495 A 2002031490 A1	30-01-2002 19-02-2002 14-03-2002